Teaching and Learning with Infa	nts and
Toddlers: Where Meaning-Makin	g Begins



Mary Jane Maguire-Fong 2016 Child Health, Education, and Care Summit DoubleTree by Hilton Hotel Sacramento

November 10, 2016, 10:30-12

Our Journey 1	oday
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- A glimpse at what scientists are learning about how infants and toddlers learn
- A proposal for how to build on this evidence from science as we teach and learn with infants and toddlers
- Examples of a reflective approach to infant curriculum
- · Systems for teaching and learning that support reflective practice

Reflection

- What did you notice?
- How did he reveal to you his thinking?

On the website of the National Science Foundation:	
"Berkeley Scientiss Study Baby Brain Power." 3:33 on https://www.youtube.com/watch?v=JF908T02KQU	
Interview with U.C. Berkeley scientist, Dr. Alison Gopnik	
"Babies Think Like Scientists." http://www.nsf.gov/news/news_videos.jsp? cntn_id=125575&media_id=73192	
http://www.alisongopnik.com/ lantern_v_spotlight.htm	
BABIES ARE SMARTER THAN WE	
EVER IMAGINED.	
Babies 8 months old notice what is likely	-
and what is not. They appear to notice arge differences in quantity.	
. ,	
Research of Dr. Fei Xu	-
http://www.youtube.com/watch?v=VrymCwZC7n0&feature=relmfu	
5	
"Babies listen intently to us and they are taking statistics as they listen to us talk."	
statistics as they listen to us talk."	
statistics as they listen to us talk."	
statistics as they listen to us talk." Quote from Dr. Patricia Kuhl's TED talk. http://www.ted.com/talks/	
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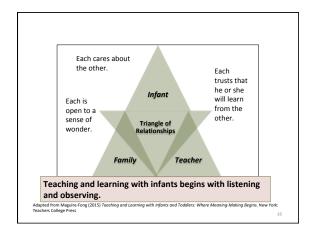
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Babies are gathering vast amounts of	
information and organizing it, within everyday moments of play and interactions.	
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Explore this link to hear how the research of Dr. Karen Wynn and colleagues suggests that babies, even those as young as 3 months old, show an ability to discriminate friend from foe:	
https://www.youtube.com/watch?v=anCaGBsBOxM&NR=1 [From Mind in the Making, Vol. 3] Screen shot from Dr. Karen Wynn's website, Yale University, The Infant Cognition Center	
Scient Shot Horito I. Aden wymi a website, fair University, the miant Cognition Center CBS Stahl: https://www.youtube.com/watch?v=FRV/FW8SicU	
ALTRUISM IN BABIES?	
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	J
Research of Tomasello and Warneken: How toddlers	
help others in need. Even young infants appear to be aware of others'	
feelings and intentions.	
http://www.eva.mpg.de/psycho/study-videos.php	
Warneken, F. & Tomasello, M. (2006). Altruistic helping in human infants and young chimpanzees. <i>Science</i> , <i>311</i> , 1301-1303.	
COOPERATION BEGINS IN INFANCY	
q.	

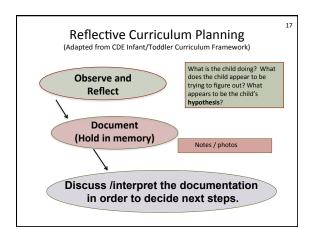
This research on how infants learn invites . . . A REFLECTIVE APPROACH TO **TEACHING AND LEARNING** Infants, like Scientists . . . Investigate and experiment to make meaning about objects, people, and events. Form hypotheses... "If I do ____, ___will happen." Form theories ... "This is how things happen." **Reflective Curriculum Planning** (Adapted from CDE Infant/Toddler Curriculum Framework) What is the child doing? What does the child appear to be trying to figure out? What appears to be the child's Observe and Reflect pothesis? **Document**

(Hold in memory)

Discuss /interpret the documentation in order to decide next steps.

What do I notice in the play? What ideas are made visible? How might we support the	
child's inquiry? happen if we	
add? How will the children	
respond if we?	
Planning Questions	
"We as teachers are asked by children to see them as scientists or philosophers searching to understand	
something, to draw out a meaning We are asked to be the child's traveling companion in this search	
for meaning." Carlina Rinaldi, President, Reggio Children	
Rinaldi, C. (2006). Creativity, Shared Meaning, and Relationships. In J. R. Lally, P.L. Mangione, & D. Greenwald (Eds.), Concepts for Care: 20 Essays on Infant/Toddlet Development and Learning, (pp.	
21-23). San Francisco, CA: WestEd.	
" We are also asked to respect the meanings that children produce, the explanatory theories	
they develop, and their attempts to find and give answers. When we honor the children this way, the	
children reveal [their thinking] to us." Carlina Rinaldi, President, Reggio Children	
Rinaldi, C. (2006). Creativity, Shared Meaning, and Relationships, In J. R. Lally, P.L. Mangione, & D. Greenweld (Eds.), Concepts for Care: 20 Essays on Infant/Toddler Development and Learning, (pp. 21-23). San Francisco, CA: WestEd.	





Developing understanding of adding and subtracting small quantities	Investigates objects (living and nonliving things) through observation and exploration	Communicates observations and investigations about objects
Representation: Using one thing to symbolize and represent another	Shapes	Knowledge of the natur world
Spatial Relations: Detecting how things fill, fit in, and move in space	Cause and Effect: Observing, anticipating, and reasoning about the relationship between cause and effect	Developing understandi of number and quantity
	Classification: Distinguishing differences	Seriation: Relating thing order of their difference

Ada	apted by Mary Jane Maguire-Fong f	g the Learning: Approaches to L rom the California Department of Education Des s items more likely seen in 3-5 year olds, than in	ired Results Developmental Profile 2015
Mainta	ains attention	Curiosity and initiative in learning	Self-comforting
Self-cor behavio	ntrol of feelings and or	Engagement and persistence in mastering activities	Shared use of materials and space
Imitatio	on		
	Early Head	Start School Rea	adiness Goals
	·		
	LanguageCognition	and literacy and general knowled	løe
	 Approache 	es to learning	
		evelopment and heal emotional developm	
	Start Programs: Examples fr	oals for Infants and Toddlers in Head Stan om the Early Head Start National Resourc	t and Early Head e Center. OHS EHS
	NRC – June 5, 2012		20
	"Mhat is been "	og in [abild] com to do	a mayalutica ia
t	thinking about cur	ng in [child] care today is riculum. The most critic o longer seen as lessons	al curriculum
t	but rather the pla	nning of settings and ex take place." (Lally, 2014	periences that
		(2014). For Our Babies. New Yo	
	CURRICULI	JM AS "CONTI	EXTS"

Curriculum as Contexts

(Reference: CDE Infant/Toddler Curriculum Framework)

- Play spaces that invite children to investigate and build concepts and ideas
- Daily routines that invite children to use emerging skills and concepts
- Conversations/Interactions that support children in learning about self and others

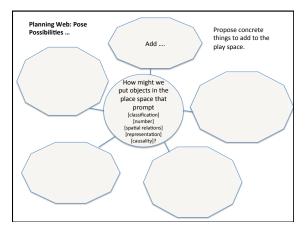
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Play Spaces as Contexts for Curriculum

How do we offer materials that allow infants to connect one idea to another? To experience ordinary objects from the everyday world? From the world of nature?

What learning potential do they hold? [concepts, skills, dispositions?]

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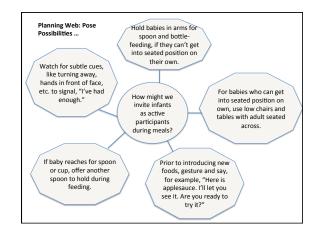


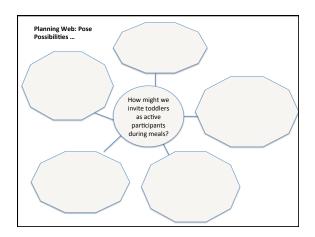
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Propose a planning question, "What will the children do if we add to the?"	
THE WRITTEN PLAN	
A PLAN OF POSSIBILITIES	
	7
Proposing Possibilities: Why a "planning question?"	
"What kind of context, what kind of possibility can you offer to the children for the next step and the	
next step, not because you know the next step, but because you want to offer a possibility for going deeper and deeper in their research"	
Rinaldi, C., in Lally, J. R. (Producer/Director), Mangione, P. L. (Writer/Director). (2006). New perspectives on infant/toddler learning, development, and care [DVD] Disc 2, Chapter 3). United States: California Department of Education.	
]
Planning question: What will the children do when they discover added to the ?	
Observation Reflection/Interpretation	
27	

Evamples: Planning questions	
Examples: Planning questions	
What might happen if we offer children?	
In what ways might they explore if we add to the routine / play space?	
to the routine / play space	
What might they do if we invite them to?	
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Daily Routines as Context for	
Curriculum	
29	
Planning Web: Pose	
Possibilities 1. Before picking up, greet the child and acknowledge what the	
child is doing. 5. Invite the baby to	
see or touch the diaper or cloth. How might we invite infants	
as active participants during the child what you are about to do and then wait for a reaction.	
diapering?	

3. Narrate your actions, "I am ready to pick you up," and notice signs of anticipation or participation.

Describe what you are doing throughout each part of the diapering.





Routines as Context for	Curriculum
Planning question: How will the children respitchers to pour milk?	oond when invited to use
Observation	Reflection

Conversation as Context for Curriculum	
34	34

		separating from loved ffer them a photo of the
Observation	Photos	Reflections
Record here what child involved in such an experience did or said.		Teachers reflect or how child responded to this new opportunity.

Planning Web: Pose Possibilities Catch the biter using gentle touch or saying "no/stop" and record as photo or story to tell back.	Shadow the biter during play, remind of "no biting," and redirect. Use same phrase, short and simple, to redirect a bite, "No biting, Tell her Stop," but do not bite her.
Agree with the biters' families on a plan for shadowing and redirecting.	Create a cardboard book using the children's photos, with story of child saying, "Stop," rather than biting.

Conversation/Guidance as Context for Curriculum Planning question: What will the toddlers do when we start responding to a bite or aggression with a clear limit and redirection: 7 can tell you are angry because he won't give you that truck. But it is not ok for you to bite him. Biting hurts people. Tell him, 1 want that truck." Observation Photos Reflections Record here what each child involved in such an experience did or said. Teachers reflect on how each child responded to this new strategy for responding to biting.

Ongoing Documentation Informs Periodic Assessment Periodic (psychometric) Assessment • Ex: Ages & Stages or California DRDP

0	bservation	Reflection/Interpretatio
•	Picks up small soap dish, mouths, fingers, peers at it Flings it away & it lands to his right Turns to look at pile of objects Picks from pile a soap dish identical to the one he had earlier Smiles as he waves it before his eyes Stares at soap dish dropped earlier Places 2 nd soap dish on top of 1 nd one – identical match	-Severyn appeared to notice how one object war the same as the other object (emerging skill: dassification, number, i.e. making "2")Showed delight in accomplishment Persisted

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Teaching and Learning with

 ${\bf Infants} \ and \ {\bf Toddlers}$

Where Meaning-Making Begins



Published by Teachers College Press http://store.tcpress.com/ 0807756199.shtml

Mary Jane's website with resources aligned to book:

https://sites.google.com/site/ teachinglearninginfants/

Mary Jane Maguire-Fong

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"If we believe that children possess their own theories, interpretations, and questions...then the most important verbs in educational practice are no longer 'to talk,' 'to explain' or 'to transmit' – but 'to listen.'"

- Carlina Rinaldi, 200

Rinaldi, C. (2006). In Dialogue with Reggio Emilia: Listening, researching, and learning. New York: Routledge

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'Stand aside for a while and leave room for learning, observe carefully what children do, and then, if you have understood well, perhaps teaching will be different from before.'"

Malaguzzi, L. (2012). History, ideas, and basic philosophy: An interview with Lella Gandini. In C. Pope Edwards, L. Gandini, & G. Forman (Eds.). The Hundred Languages of Children: The Reggio Emilia Experience in Transformation (3rd ed. p. 57). Santa Barbara. CA: Praeger

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Additional Resources

- Lally, J. R. (Producer/Director), Mangione, P. L. (Writer/Director). (2006). New perspectives on infant/toddler learning, development, and care [DVD] Disc 2, Chapter 3). United States: California Department of Education.
- California Department of Education. (2012). California Infant/Toddler Curriculum Framework. Sacramento, CA.
- Rinaldi, C. (2006) Creativity, Shared Meaning, and Relationships, in J.R. Lally, P.L. Mangione, & D. Greenwald (Eds.). Concepts for Care: 20 Essays on infant/toddler development and learning, pp. 21-23. San Francisco, CA: Westleff. (Chapter available online at http://www.wested.org/online_pubs/ccfs-06-01-chapter4.pdf
- mpp://www.westen.org/nnime_plans/rct-se-ol-Chapters.pan

 Free online DVO's produced by California Department of Education
 Learning Environments and Curriculum (21-26)
 This video department of Curriculum Planning, "Environments, Schedules, and
 Routines," and "Strategies to Support Learning and Development,"
 Obsenzation, Screening, Assessment, and Decumentation (19-25)
 This video addresses "Observation," "Screening and Referral," "Assessment,"
 "Documentation," and "Interpretation, Planning, and Implementation."
 Child Development and Learning (16-32)
 This video addresses "Knowledge About Child Development and Learning" and "Facilitating
 Child Development and Learning."

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